

1/10

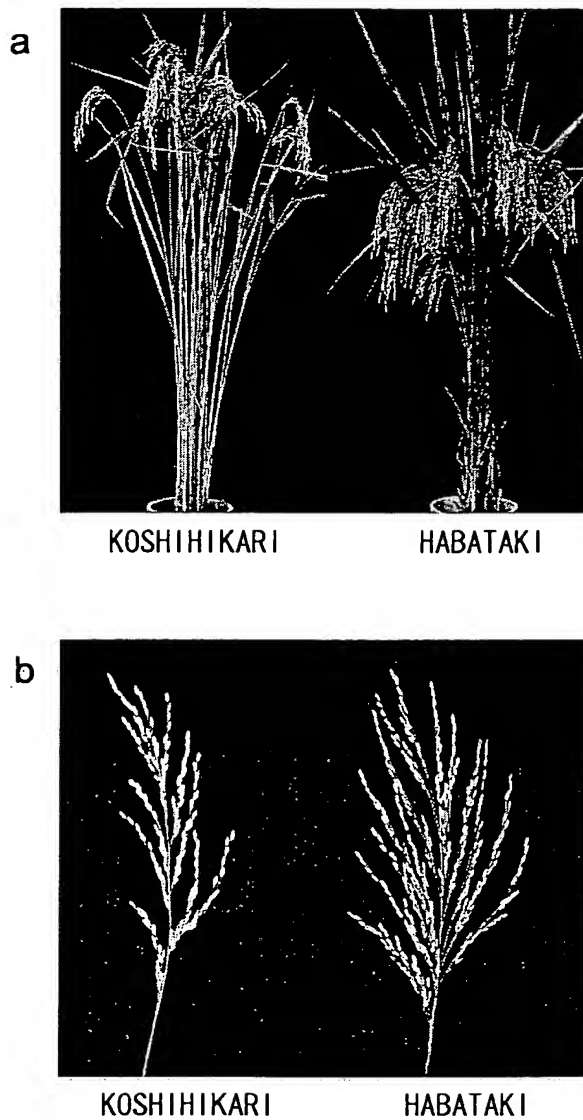


FIG. 1

BEST AVAILABLE COPY

2/10

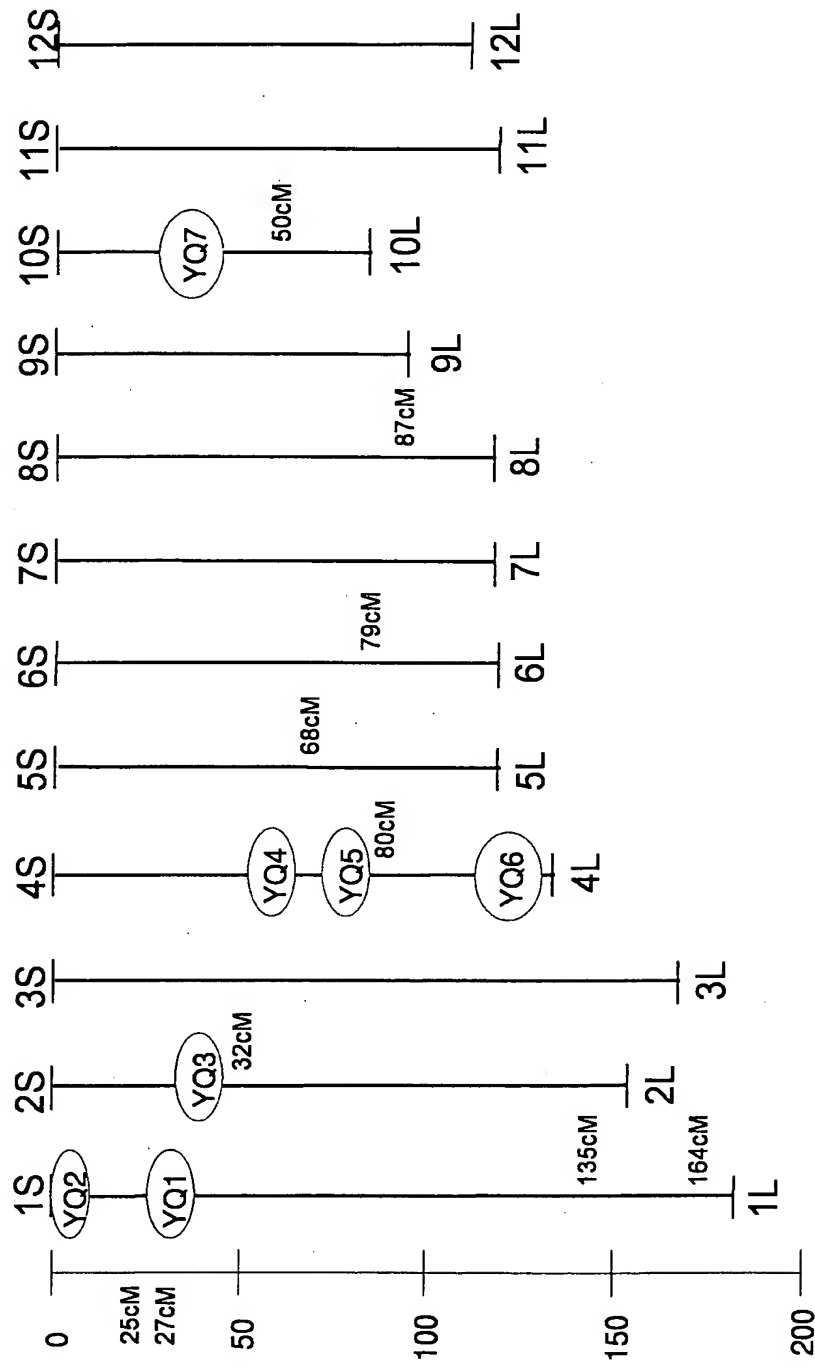
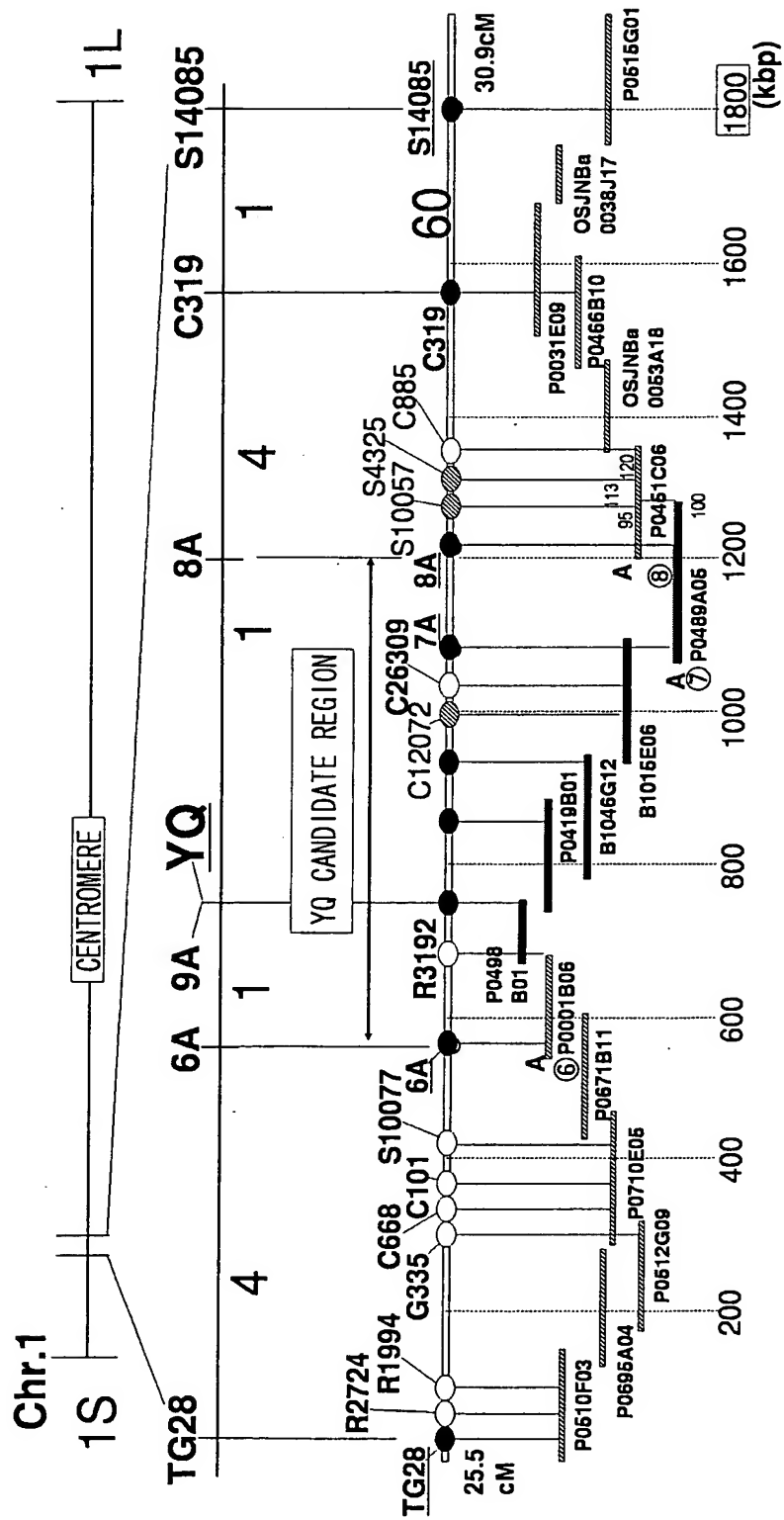


FIG. 2



**FIG. 3**

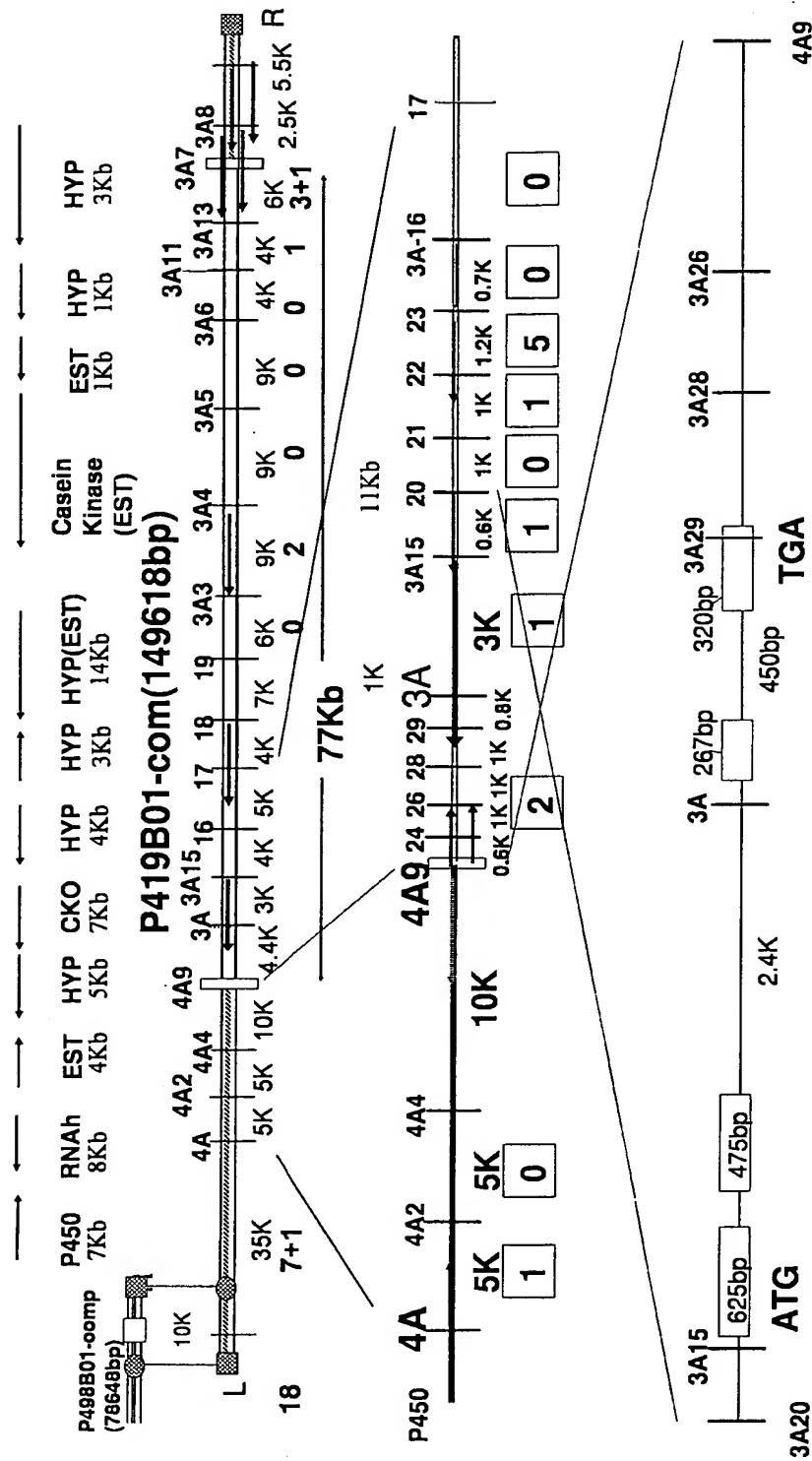


FIG. 4

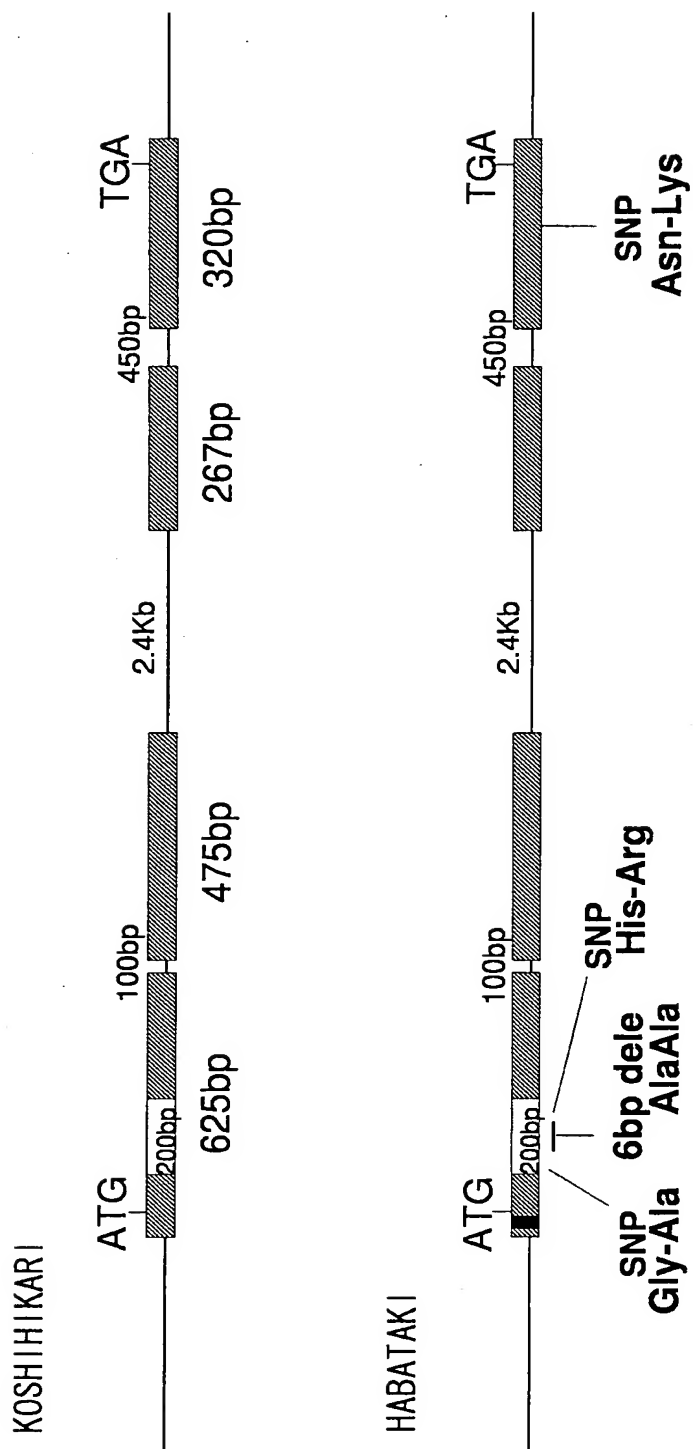


FIG. 5

6/10

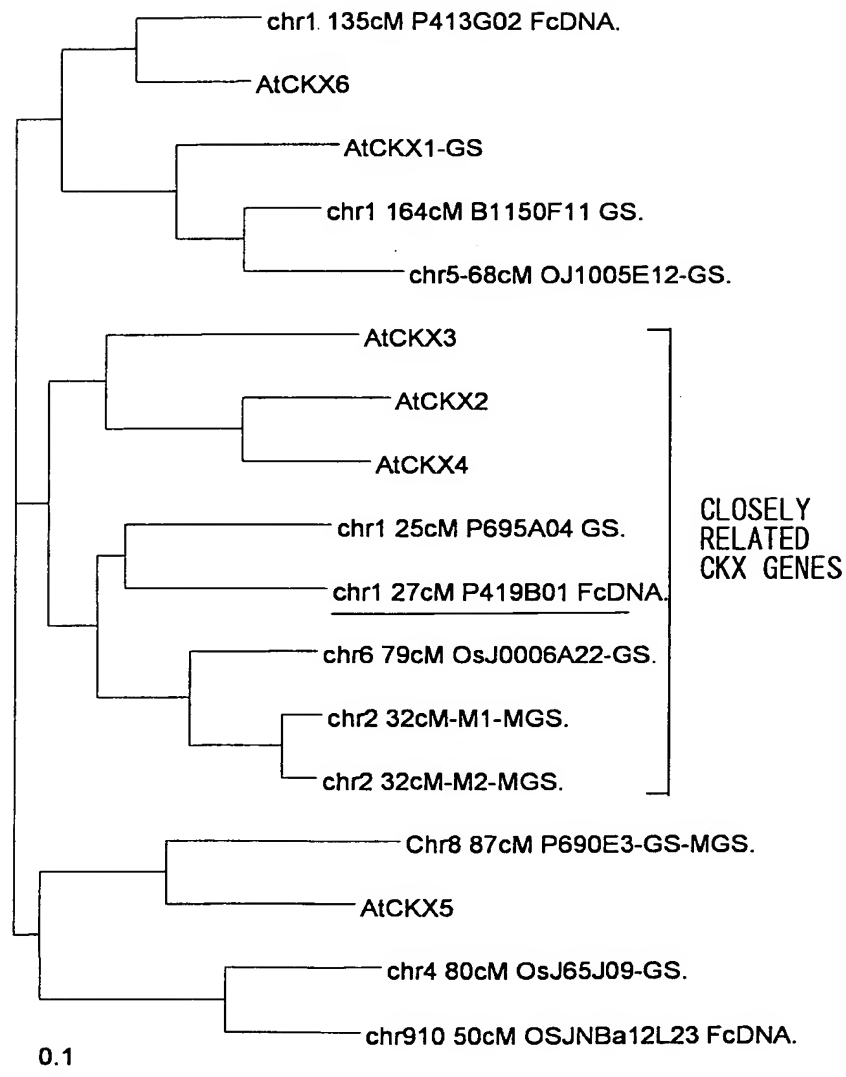


FIG. 6

AtCKX2	1	-----MANLALM-ITLITVLMITKSSNGIKID-----PKSLNITLSTDPBI	41
AtCKX3	1	-----MASVNLRSQVALIAITIVIIITLSTPITNTSPQPINISHNEFAGKLTSSBS	53
AtCKX4	1	-----MTNTLCLSLITLITFFISLPTLIK--SOEGIDVF-----PISLNITVLIDPFS	48
chr1_25cM_P695A04_GS	1	MAAIVL-LIA-ALIASSHALAAHGAGGGVPLAAAPLPFPD-----AASGKLRTDPNAT	54
chr1_27cM_P419B01_FcDNA	1	MAVL-LML-N-CFKATAPPPIPPSSASSAFLOD--L-----GIAPIIRADERGT	48
chr2_32cM-M1-MGS	1	-----MAARCSIA-FINVMASCLSVV--SAG-----PG--DIFAHSVARX	36
chr2_32cM-M2-MGS	1	-----MAARCSIA-FIMIMASCLSVV--SAG-----PG--DIFALSVARX	36
chr6_79cM_OsJ0006A22-GS	1	-----MPRAQLTIFLIVTSFLSTVPYLRAV--HGG--VITSV-DVSSLDIMEX	44
AtCKX2	42	ISARSH-DFGNIITTVTPGGVICPSSSTEDISALLQYAN--G-KS-----TFQVFAAQ	90
AtCKX3	54	SVESARTDFGHVTKIFPSAVLIPSSVEDITOLIKLSFDSQL-----S-----PPLPARGH	103
AtCKX4	49	ISARSH-DFGNIITDENPBAVLCPSSSTTEVARLLRFANGGFSYKSGTSPASTFKVFAAQ	107
chr1_25cM_P695A04_GS	55	VPASND--FGNITR-----A-LP--ARVAFGSGGVBEIARVYAAFGAR--TIVSFGAR	103
chr1_27cM_P419B01_FcDNA	49	ARASAD--FGNLSVAGVBPALRAAAAVLYPSAPADIPALLASCARPA--PFAVSAROC	104
chr2_32cM-M1-MGS	37	LAVDRD-TT-ARASSDFRIVAAAPERVLAHPATPAEITELVAFSASSPS--P--PVPARQ	92
chr2_32cM-M2-MGS	37	LAVDRN-ST-ARASSDFRIVAAAPERVLAHPATPAEITELVAFSASSPS--P--PVPARQ	92
chr6_79cM_OsJ0006A22-GS	45	IHTDHD-AT-TKASSDFEHIHATPNGLFARTFPAIDIPAL--LSLSQDT--P--PTVAPRCK	100
AtCKX2	91	GHSNBSQSVSGVJINNTCITDVV-----VSKDKK-----PAAVARGTLMVDVLKKTAEK	141
AtCKX3	104	GHSARGQSAKGGVWVNIARSMVNRDRG--IKVSRATCL-----VVDVDAALIMIEVLNKTDEL	158
AtCKX4	108	GHSARGQSAKGGVWVNIATCAMAAPPAVVISADGT-----PAAVARGTLMVDVLKKTAEK	154
chr1_25cM_P695A04_GS	104	GHSNBSQSAKGGVWVNIQSMG-----GGAPRINVSADGA--VVDAGGEQLMVDVLRAHAR	159
chr1_27cM_P419B01_FcDNA	105	GHSVHGQSAKGGVWVNIASIGRLQGGARLAVSVEGR--VVDAGGEQLMVDVLRAHAR	163
chr2_32cM-M1-MGS	93	GHSARGQSLAPGGVWVNIARAAARQ--RVNVSAGGAGAPVVDAGGEQLMVDVLRAHAR	151
chr2_32cM-M2-MGS	93	GHSARGQSLAPGGVWVNIARAAARQ--RVNVSAGGAGAPVVDAGGEQLMVDVLRAHAR	148
chr6_79cM_OsJ0006A22-GS	101	GHSARGQSAKGGVWVNIASIGDLH--GHTSHRIDVSVDRMIVVDAGGEQLMVDVLRAHAR	159
AtCKX2	142	AVSPVSTVDYLHITVAGTILSNAGIGGQVFRNGR--VENVLELDVITGKDEM--TCSRQLNPE	201
AtCKX3	159	GLTPVSTVDYLHITVGGTILSNAGIGGQTFRYGPQITVLELDVITGKDEIATCSKOMNS	218
AtCKX4	165	AVSPVSTVDYLHITVGGTILSNAGIGGQTFRHGPQISNVHELDVITGKDEM--TCSRQLNPE	224
chr1_25cM_P695A04_GS	160	AVAPVSTVDYLHITVGGTILSNAGIGGQTFYHGPQISNVLELDVITGHEITVITCSKAVNS	219
chr1_27cM_P419B01_FcDNA	164	GLTPVSTVDYLHITVGGTILSNAGIGGQTFRHGPQISNVLELDVITGVDEM--TCSRKEKAP	223
chr2_32cM-M1-MGS	152	GLAPVSTVDYLHITVAGTILSNAGIGGQTFRHGPQISNVLELDVITGHEITVITCSADKEP	211
chr2_32cM-M2-MGS	149	GLAPVSTVDYLHITVAGTILSNAGIGGQTFRHGPQISNVLELDVITGHEITVITCSADKDS	208
chr6_79cM_OsJ0006A22-GS	160	GLTPVSTVDYLHITVGGTILSNAGIGGQTFRHGPQISNVHELDVITG--VITG	205

FIG. 7

AtCKX2	202	LFYVGLGGLGQFGIITRAIRIV	DHAPKRAKIFRMLYSDF	TTFTKQDERLIS	MANDIGVDY	261		
AtCKX3	219	LFYVGLGGLGQFGIITRAIRIK	EVAPKRAKILFLMIL	DFSEFTRDQERVI	SKTDGV--DF	276		
AtCKX4	225	LFYVGLGGLGQFGIITRAIRAL	DHAPTRVKIGRILYSDF	SAPKADQERLIS	MTNDLGVD	284		
chr1_25cM_P695A04_GS	220	LFDRVGLGGLGQFGIITRAIRVAV	PAPAPARIVLVAALFAESADQERLVA	ARPDSHG		279		
chr1_27cM_P419B01_FcDNA	224	LFDRVGLGGLGQFGIITRAIRIP	PAPAPARIVLVAALFAESADQERLVA	DRAGGAGA		283		
chr2_32cM-M1-MGS	212	LFYVGLGGLGQFGIITRAIRIG	EPAPKRVIVLVAALYSQVVFTRDQE	ISKRASEA		268		
chr2_32cM-M2-MGS	209	LFYVGLGGLGQFGIITRAIRIG	EPAPKRVIVLVAALYSQVVFTRDQE	ISKRASEA		265		
chr6_79cM_OsJ0006A22-GS	206	-----GLGQFGIITRAIRIR	EPAPKRVIVLVAALYSQVVFTRDQE	ISKRASEA		255		
AtCKX2	262	LEEQIFLSNRVMD	-----	SEPPSSQSKVAD	VKQHGII--	296		
AtCKX3	277	LEESIMVDHPPDNIRS	-----	YPPSHLPI	ASTIVKRAHVIV	315		
AtCKX4	285	LEQLMNSNFMVMD	-----	SFFPLSQTRVSES	VNDHRII--	319		
chr1_25cM_P695A04_GS	280	W-----SVVEGRVY	AGRGVAVALKSSG	-----G	FFSDADARVVAL	FAARNATA	324	
chr1_27cM_P419B01_FcDNA	284	VGLMDIYVEGSMHLNQ	GLVETARTQPPSPSSSSSS	FFSDADARVVAL	FA--KEAGG	340		
chr2_32cM-M1-MGS	269	-----FD--YVEGQVQLNRT	-----TEGPKSTP	-----	FFSDFIDLAGLA	SESYSVG	311	
chr2_32cM-M2-MGS	266	-----FD--YVEGQVQLNRT	-----TEGPKSTP	-----	FFSSDIDLAGLA	SKSVSG	308	
chr6_79cM_OsJ0006A22-GS	256	-----FD--YVEGQVQLNRT	-----TQGRSSS	-----	FFSRTLAGLAG	IDTGSVA	299	
AtCKX2	297	-----VLEVRKIVYDDPNLP	IIISKVIDTLTKTISVLP	-----	DFISMDVAVFDFLNRVAV	VEENK	351	
AtCKX3	316	CL-----SVVKIYDETSQVTVNEEMEELSDS	-----NHVR	-----	DFVYKDVMTIDFLNRV	RTGELN	369	
AtCKX4	320	-----VLEVRKIVYDDPNLP	IIIDQVIDTLSTRIGFAP	-----	DFVYQDVVDFDFLNRV	NEEDK	374	
chr1_25cM_P695A04_GS	325	V-----VSIERTLN	VYARNATPSSVDARYAARAL	GOALHFEED	DFPSRDVTFEEFLDRV	VGEER	382	
chr1_27cM_P419B01_FcDNA	341	VLFLFEGRI	FGGAGPSADVDKRMIDVLA	RELAHERGV	FAQDVAVAGFLDRV	HOGELK	400	
chr2_32cM-M1-MGS	312	VIFIEGRI	YNESTTASVDOKLTSVLEQ	ISFDK	-----	DFVTKDVS	VQFLDRV--REER	367
chr2_32cM-M2-MGS	309	VIVIEGRI	YNESTTASVDOKLTSVLEQ	ISFEE	-----	DFVTKDVS	VQFLDRV--REER	364
chr6_79cM_OsJ0006A22-GS	300	-----VIVIEGRI	YDDNTARSVDOKLDALEEL	ISFVR	-----	DFVYVDRAS	VEFLDRVGREEDN	355
AtCKX2	352	-----ASLAL	DELPHIPNLNLFVPAKBR	ILDFANISVWQIIL	KOKSAS--ALAL	-----	PPINRANKIUN	408
AtCKX3	370	-----KSKQ	QIDVPHIPNLNLFVPAKTOI	ISKFDDGVFKGIIL	RANNITS	-----	PPINRANKIUN	426
AtCKX4	375	-----ASLAL	ELPHIPNLNLFVPGSR	IQDFHOGVYINIL	LNQTS	-----	PPINRANKIUN	431
chr1_25cM_P695A04_GS	383	-----EKRAL	ELPHIPNLNLFVPGSR	IQDFHOGVYINIL	LNQTS	-----	PPINRANKIUN	439
chr1_27cM_P419B01_FcDNA	401	-----PARAL	QIDVPHIPNLNLFVPAKBR	ILDFANISVWQIIL	RTATDIA--	-----	PPINRANKIUN	456
chr2_32cM-M1-MGS	368	ILASIDVPHIPNLNLFVPAKBR	ILDFANISVWQIIL	RTATDIA--	RTATDIA--	-----	PPINRANKIUN	424
chr2_32cM-M2-MGS	365	VLASIDVPHIPNLNLFVPAKBR	ILDFANISVWQIIL	RTATDIA--	RTATDIA--	-----	PPINRANKIUN	421
chr6_79cM_OsJ0006A22-GS	356	-----ASLAL	QIDVPHIPNLNLFVPAKBR	ILDFANISVWQIIL	RTATDIA--	-----	PPINRANKIUN	411

FIG. 8



AtCKX2	409	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	461
AtCKX3	427	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	477
AtCKX4	432	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	483
chr1_25cm_P695A04_GS	440	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	492
chr1_27cm_P419B01_FcDNA	457	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	511
chr2_32cm-M1-MGS	425	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	476
chr2_32cm-M2-MGS	422	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	473
chr6_79cm_L0sJ0006A22-GS	412	RMSA11PEID-EDVFM11LLQ5ATPKOLP-EVSVNEK1IR----	FKXS--	DIKIKQYL	468
AtCKX2	462	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	501
AtCKX3	478	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	523
AtCKX4	484	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	524
chr1_25cm_P695A04_GS	493	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	533
chr1_27cm_P419B01_FcDNA	512	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	555
chr2_32cm-M1-MGS	477	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	520
chr2_32cm-M2-MGS	474	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	517
chr6_79cm_L0sJ0006A22-GS	469	MHYT-BKED11ET1FQSG-D-DFSKRKOLFDPKLLSPGGDIF	-----	-----	521
AtCKX2	501	-----	-----	-----	501
AtCKX3	523	-----	-----	-----	523
AtCKX4	524	-----	-----	-----	524
chr1_25cm_P695A04_GS	533	-----	-----	-----	533
chr1_27cm_P419B01_FcDNA	556	-----PLA	-----	-----	558
chr2_32cm-M1-MGS	521	-----PMALVIM-	-----	-----	527
chr2_32cm-M2-MGS	518	-----SMYVVSIM-	-----	-----	524
chr6_79cm_L0sJ0006A22-GS	522	GEPI TAS	-----	-----	528

FIG. 9

10/10

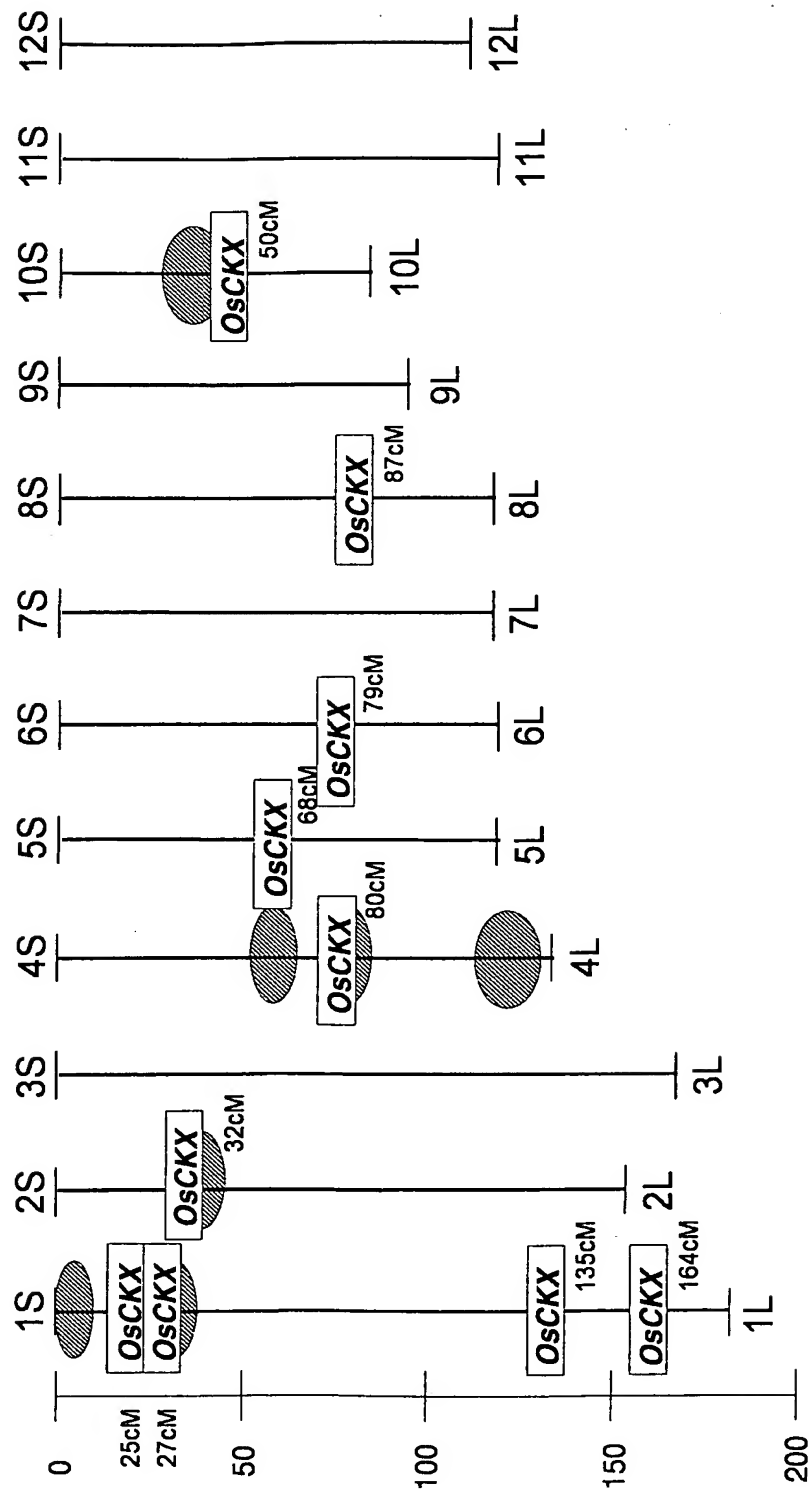


FIG. 10